SEQUENCE LISTING

- (i) APPLICANT: YOUNG, KATHLEEN H. RHODES, KENNETH J.
- (ii) TITLE OF INVENTION: METHODS FOR IDENTIFYING MODULATORS OF N-TYPE ION CHANNEL INACTIVATION
- (iii) NUMBER OF SEQUENCES: 23
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: AMERICAN HOME PRODUCTS CORPORATION
 - (B) STREET: FIVE GIRALDA FARMS -- ATTN. KAY E. BRADY
 - (C) CITY: MADISON
 - (D) STATE: NEW JERSEY
 - (E) COUNTRY: US
 - (F) ZIP: 07940
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: CD-R
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: WINDOWS NT
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: BOGLE, GAVIN T.
 - (B) REGISTRATION NUMBER:
 - (C) REFERENCE/DOCKET NUMBER: AHP 98133 C1
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617) 665-8079
 - (B) TELEFAX: (617) 876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
 - (ii) MOLECULE TYPE: peptide
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 - Gln Ile Leu Gly Gln Thr Leu Lys Ala Ser Met Arg Glu Leu Gly Leu

 1 10 15

- (2) INFORMATION FOR SEQ ID NO:2:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 16 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
 - (ii) MOLECULE TYPE: peptide
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gln Ile Leu Gly His Thr Leu Arg Ala Ser Met Arg Glu Leu Gly Leu 1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GATCCTGGGC CAGACCCTCA AAGCTAGTAT GAGAGAGCTA GGGCTGCT

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- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 48 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GATCCTGGGC CACACCCTCA GAGCCAGCAT GCGGGAACTG GGCCTTCT

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- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant

- (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: Met Gln Val Ser Ile Ala Cys Thr Glu His Asn Leu Lys Ser Arg Asn 10 Gly Glu Asp Arg Leu Leu Ser Lys Gln Ser Ser Thr Ala Pro (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: not relevant (ii) MOLECULE TYPE: peptide (vi) ORIGINAL SOURCE: (A) ORGANISM: Homo sapiens (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: Met Glu Val Ala Met Val Ser Ala Glu Ser Ser Gly Cys Asn Ser His Met Pro Tyr Gly Tyr Ala Ala Gln Ala Arg Ala Arg Glu Arg 25 (2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

ATGCAAGTCT CCATAGCCTG CACAGAGCAC AATTTGAAGA GTCGGAATGG TGAGGACCGA 60
CTTCTGAGCA AGCAGAGCTC CACCGCCCCC 90

	(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
ATGGAGG'	TTG CAATGGTGAG TGCGGAGAGC TCAGGGTGCA ACAGTCACAT GCCTTATGGT	60
TATGCTG	CCC AGGCCCGGGC CCGGGAGCGG	90
(2) INFO	ORMATION FOR SEQ ID NO:9:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CATGGAGO	CTC TTCATCGGGG TCATCCTGTT TTCTAGTGCA GTGTACTTTG CCGAGTAAG	59
(2) INFO	DRMATION FOR SEQ ID NO:10:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:10:	
GATCCTTA	CT CGGCAAAGTA CACTGCACTA GAAAACAGGA TGACCCCGAT GAAGAGCTC	59
(2) INFO	RMATION FOR SEQ ID NO:11:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:11:	

(i) SEQUENCE CHARACTERISTICS:

		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
		(ii)	MOLECULE TYPE: DNA (genomic)		
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:12:		
	ACGO	GATCC	CC GAATTCCATT ATGATCTATA GTCCTTCTTG CT	42	
	(2)	INFO	RMATION FOR SEQ ID NO:13:		
		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(ii)	MOLECULE TYPE: DNA (genomic)		
Jan will		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13:		
	ACGGATCCCC GAATTCCATT AATCTGAAAT TTGACCTCCA AATGT 4				
	(2)	INFO	RMATION FOR SEQ ID NO:14:		
机二角混乱 和 声气		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
işar.		(ii)	MOLECULE TYPE: DNA (genomic)		
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:14:		
	CATO	GGAGC.	AG ATCCTGGGCC ACACCCTGAG AGCCAGCATG CGGGAACTGG GCCTTTAAG	59	
	(2)	INFO	RMATION FOR SEQ ID NO:15:		
		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
		(ii)	MOLECULE TYPE: DNA (genomic)		
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:15:		
	GATO	CCTTA	AA GGCCCAGTTC CGGCATGCTG GCTCTGAGGG TGTGGCCCAG GATCTGCTC	59	

(2) INFORMATION FOR SEQ ID NO:12:

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 60 base pairs

		(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear				
		(ii) MOLECULE TYPE: DNA (genomic)				
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:				
	AATTCCTCTT CATCGGGGTC ATCCTGTTTT CTAGTGCAGT GTACTTTGCC GAGTAAGCC					
	(2)	INFORMATION FOR SEQ ID NO:21:				
		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear				
		(ii) MOLECULE TYPE: DNA (genomic)				
1		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:				
	TCGAGGCTTA CTCGGCAAAG TACACTGCAC TAGAAAACAG GATGACCCCG ATGAAGAGG					
	(2)	INFORMATION FOR SEQ ID NO:22:				
		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 39 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear				
		(ii) MOLECULE TYPE: DNA (genomic)				
120 3		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:				
	AGT	AGGATCC CCATGCCAGT CTCCATAGCC TGCACAGAG	39			
	(2)	INFORMATION FOR SEQ ID NO:23:				
		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 39 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear				
		(ii) MOLECULE TYPE: DNA (genomic)				
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:				
	GGGZ	ACGTCGA CGCCATTATG ATCTATAGTC CTTCTTGCT	39			

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